ELSEVIER

Mechanisms of Ageing and Development
110 (1999) 213–214

mechanisms of ageing and development

Contents of volume 110

Volume 110, Nos. 1–2 **October 1, 1999**

Age-related alteration of intracellular ATP maintenance in the cell suspensions of mice cerebral cortex
H.J. Joo, J.Y. Ma, Y.G. Choo, B.K. Choi, K.Y. Jung (Chonbuk, South Korea) 1

The comet assay: a tool to study alteration of DNA integrity in developing plant leaves
G. Koppen, L.M. Toncelli, L. Triest, L. Verschaeve (Mol, Brussels, Belgium; Pisa, Italy) 13

Accumulation of DNA damage in pre- and posthepatectomized liver of aged rats
F. Kalandarishvili, K.T. Wheeler (Winston-Salem) 25

Age-dependent alterations in mRNA level and promoter methylation of collagen α1(I) gene in human periodontal ligament
M. Takatsu, S. Uyeno, J.-i. Komura, M. Watanabe, T. Ono (Sendai, Japan) 37

Age-related loss of proliferative activity of human vascular smooth muscle cells in culture
A. Ruiz-Torres, A. Gimeno, J. Melón, L. Mendez, F.J. Muñoz, M. Macía (Madrid, Spain) 49

Cysteine sulfinate decarboxylase and cysteine dioxygenase activities do not correlate with strain-specific changes in hepatic and cerebellar taurine content in aged rats
B. Eppler, R. Dawson, Jr. (Gainesville, FL) 57

Age-associated changes in the stimulatory effect of transforming growth factor beta on human osteogenic colony formation
J. Erdmann, C. Kögler, I. Diel, R. Ziegler, J. Pfeilschifter (Heidelberg, Germany) 73

The effect of dietary fat on malondialdehyde concentrations in Fischer 344 rats
R.P. Danam, M.H. Lu, S.M. Lewis, Z. Djuric, N. Tang, R.W. Hart (Jefferson, AR; Little Rock, AR; Detroit, MI). 87

Theoretical Gompertzian implications on life span variability among genotypically identical animals
A. Kowald (Berlin, Germany) 101
Resistance of the aged myocardium to exercise-induced chronic changes in glucose transport related protein content
L.C. Martineau, S.G. Chadan, W.S. Parkhouse (Burnaby, Canada) . 109
The DLP1 mutant of the yeast *Saccharomyces cerevisiae* with an increased copy number of the 2μ plasmid shows a shortened lifespan
Z. Xu, K. Mitsui, M. Motizuki, S.-I. Yaguchi, K. Tsurugi (Yamanashi, Japan) 119

Instructions to authors 131

Volume 110, No. 3 **October 22, 1999**

Artificial senescence of bovine retinal pigment epithelial cells induced by near-ultraviolet in vitro
W. Li, M. Yanoff, Y. Li, Z. He (Philadelphia; Beijing, China) 137
Augmentation of indices of oxidative damage in life-long melatonin-deficient rats
R.J. Reiter, D.-x. Tan, S.J. Kim, L.C. Manchester, W. Qi, J.J. Garcia, J.C. Cabrera, G. El-Sokkary, V. Rouvier-Garay (San Antonio) 155
Telomerase activity in hybrids between telomerase-negative and telomerase-positive immortal human cells is repressed in the different complementation groups but not in the same complementation group of immortality
Y. Ishii, N. Tsuyama, S. Maeda, H. Tahara, T. Ide (Hiroshima, Japan) 175
Age-related effects of oxidative metabolism and cyclic AMP signaling on neutrophil apoptosis
C. Tortorella, G. Piazzolla, F. Spaccavento, E. Jirillo, S. Antonaci (Bari, Italy) 195

Author index 207
Subject index 209
Volume contents 213